

Converting Colors

XYZ(31.9503, 14.6498, 83.7741)

Have a look what the booklet for
XYZ(31.9503, 14.6498, 83.7741)
contains.

XYZ(31.8766, 14.6161, 83.5792)	3
<i>Conversions</i>	4
<i>Details</i>	6
<i>Harmonies</i>	12
<i>Previews</i>	24
<i>Color Blindness Simulation</i>	28
<i>CSS Examples</i>	31

Color

**XYZ(31.8766, 14.6161,
83.5792)**

Conversions

Conversions Part 1

Format	Color
Hex	A800F0
RGB	168, 0, 240
RGB Percent	66%, 0%, 94%
CMY	0.3412, 1.0000, 0.0588
CMYK	0.30, 1.00, 0.00, 0.06
HSL	282°, 100%, 47%
HSV	282°, 100%, 94%
XYZ	31.8766, 14.6161, 83.5792
YIQ	77.5920, 23.0880, 110.2560

Conversions

Conversions Part 2

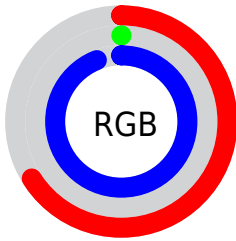
Format	Color
RYB	168, 0, 240
Decimal	11010288
CIELab	45.10, 84.01, -77.77
CIELCh	45, 114.481, 317.208
Yxy	14.6161, 0.2451, 0.1124
Android (android.graphics.Color)	4289200368 (0xFFA800F0)
YUV	77.5920, 80.0671, 79.2878
Hunter-Lab	38.2310, 81.9271, -102.8559

Details

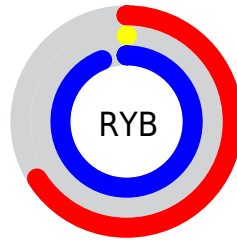
The XYZ color **31.8766, 14.6161, 83.5792** is a dark color, and the websafe version is hex **9933FF**. The color can be described as middle saturated purple. A complement of this color would be **33.8330, 63.6983, 10.5120**, and the grayscale version is **7.0177, 7.3832, 8.0403**.

A 20% lighter version of the original color is **53.9355, 31.0228, 97.7530**, and **14.6106, 6.5447, 45.2929** is the 20% darker color. If you saturate the color by 10%, you get **31.8770, 14.6163, 83.5795**, and if you desaturate by 10%, it is **33.7798, 16.0823, 83.7622**.

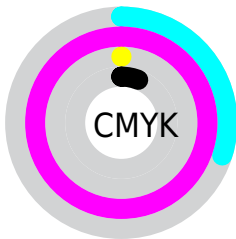
Distribution



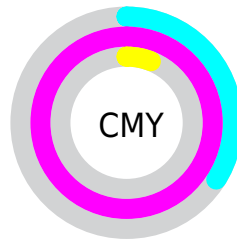
- Red (66%)
- Green (0%)
- Blue (94%)



- Red (66%)
- Yellow (0%)
- Blue (94%)



- Cyan (30%)
- Magenta (100%)
- Yellow (0%)
- Black (6%)





- Cyan (34%)
- Magenta (100%)
- Yellow (6%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 31.8766, 14.6161, 83.5792 changes by changing the brightness by 10 percent. The first figure shows a shift by +10% for each color and the second figure -10%.


Similar to the brightness gradients but the following saturation gradients show a change of the XYZ color 31.8766, 14.6161, 83.5792 by changing the saturation by 10% instead.

 31.8766, 14.6161,
83.5792


 31.8766, 14.6161,
83.5792


302.3120,
221.0307, 526.9363


 21.4224, 8.5504,
62.1247


 61.9841, 34.1783,
140.2429


 13.5473, 4.4491,
44.6970


 82.3680, 48.4436,
176.2891


 7.8861, 1.9278,
30.8776


 106.7926, 66.2108,
218.0363

 4.0733, 0.5650,
20.2480

 135.6231, 87.8645,
265.9031

 1.7437, 0.0000,
12.3896

 169.2250,
113.7889, 320.3079

 0.4834, 0.0000,
6.8838

 207.9635,

 0.0000, 0.0000,

144.3684, 381.6694

3.3122

252.2041,
179.9876, 450.4060

■ 0.0000, 0.0000,
1.2562

■ 0.0000, 0.0000,
0.0255

■ 31.8766, 14.6161,
83.5792

■ 31.8766, 14.6161,
83.5792

■ 31.8770, 14.6163,
83.5795

■ 33.7798, 16.0823,
83.7622

■ 36.1721, 18.3999,
84.0835

■ 39.1821, 21.8229,
84.5855

■ 42.8860, 26.5019,
85.2934

47.3480, 32.5635,
86.2283

52.6245, 40.1185,
87.4084

58.7660, 49.2664,
88.8505

65.8187, 60.0979,
90.5694

73.8255, 72.6966,
92.5792

Harmonies

Analogous

The Analogous color harmony consists of three colors that are next to each other on the color wheel.



19.9701, 14.6161, 134.7148



31.8766, 14.6161, 83.5792



40.1039, 14.6161, 30.3869

Triad

The Triadic color harmony groups three colors that are evenly spaced from another and form a triangle on the color wheel.



31.8766, 14.6161, 83.5792



18.3015, 14.6161, 0.0000



2.7783, 14.6161, 36.7259

Complementary

The Complementary color scheme is a pair of colors which are on the opposite of each other on the color wheel.



31.8766, 14.6161, 83.5792



33.8330, 63.6983, 10.5120

Split Complementary

Split-complementary colors differ from the complementary color scheme. The scheme consists of three colors, the original color and two neighbors of the complement color.



2.6566, 14.6161, 6.9695



31.8766, 14.6161, 83.5792



9.1925, 14.6161, 0.0000

Square

The Square scheme is like the rectangle color scheme, but the four colors are evenly spaced on the color wheel.



31.8766, 14.6161, 83.5792



30.1901, 14.6161, 0.0000



4.3881, 14.6161, 0.0000



4.8620, 14.6161, 92.4143

Rectangle

The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



31.8766, 14.6161, 83.5792



40.7284, 14.6161, 10.2521



4.3881, 14.6161, 0.0000



2.5561, 14.6161, 23.3519

Sweetspot

The Sweet Spot groups the original color and five complimentary colors.



31.8774, 14.6166, 83.5796



67.3651, 56.4244, 101.9482



18.0460, 10.9266, 83.5963



13.7550, 11.0791, 21.6635



0.0000, 0.0000, 0.0000



20.3446, 21.4041, 23.3091

Same Dimension

The Same Dimension uses a secret algorithm to generate beautiful new colors.



31.8774, 14.6166, 83.5796



36.5253, 16.7444, 95.9146



45.4500, 22.3313, 51.7849



15.9657, 15.7796, 19.9259



17.5905, 8.0736, 45.7591



1.5632, 0.7231, 3.8114

Inverse Universe

The Inverse Universe completely reimagines the original color for something new.



37.1052, 18.9934, 7.8419



42.5619, 21.7888, 8.8912



31.6939, 62.5339, 13.1966



15.9679, 15.8369, 17.3874



20.3630, 10.4176, 4.5619



1.7363, 0.8836, 0.6024

Previews

White Background



This preview shows how the XYZ color 31.8766, 14.6161, 83.5792 looks on a white background.

Color Contrast Check

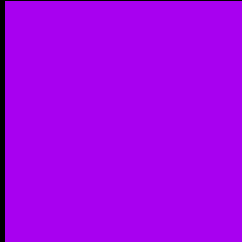
Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

Black Background



This preview shows how the XYZ color 31.8766, 14.6161, 83.5792 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

If you want to check with other color combinations, try the [Color Contrast Checker](#).

XYZ 31.8766, 14.6161, 83.5792

Background



This preview shows how black text looks on a background with the XYZ color 31.8766, 14.6161, 83.5792.



This preview shows how white text looks on a background with the XYZ color 31.8766, 14.6161,

Color Blindness Simulation

Color vision deficiency is a very complex topic, and I could not describe the different causes any better than Wikipedia does, so if you want to learn more, you should check out their [article about color blindness](#).

Dichromacy



Original Color

31.8766, 14.6161, 83.5792

Protanopia

17.9698, 15.2705, 69.7105

Deuteranopia

15.0884, 15.1305, 51.4154



Tritanopia

17.8533, 14.8743, 14.2420

Trichromacy



Original Color

31.8766, 14.6161, 83.5792



Protanomaly

17.7968, 10.5525, 73.7719



Deuteranomaly

15.6863, 10.1020, 61.4447



Tritanomaly

20.4202, 12.2710, 30.9980

Monochromacy



Original Color

31.8766, 14.6161, 83.5792



Achromatopsia

7.2414, 7.6185, 8.2966



Achromatomaly

12.2115, 7.4669, 24.4645

CSS Examples

Text

The CSS property to change the color of the text to XYZ 31.8766, 14.6161, 83.5792 is called "color". The color property can be set on classes, ids or directly on the HTML element.

This example shows how text in the color `rgb(168, 0, 240)` looks like.

```
.text, #text, p{  
    color:rgb(168, 0, 240)  
}
```

If you want to add a text shadow in that color use the text-shadow property, you can generate a text shadow directly with our [CSS Text Shadow Generator](#).

Here you see how black text with a 4 pixel rgb(168, 0, 240) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(168, 0, 240) }
```

Border

The CSS property to change the border of an element to XYZ 31.8766, 14.6161, 83.5792 is called "border". The border property can be set on classes, ids or directly on the HTML element.

This example shows the color as border, it can be applied via the CSS property "border" or "border-color".

```
.border, #border, table{ border:4px solid rgb(168, 0, 240) }
```


If only the border color should be changed use the property border-color.

```
.border{ border-color:rgb(168, 0, 240) }
```

If you want to add a box shadow in that color use:

Here you see how a box with a 4 pixel rgb(168, 0, 240) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(168, 0, 240); -webkit-box-  
shadow:4px 4px 4px 4px rgb(168, 0, 240);  
box-shadow:4px 4px 4px 4px rgb(168, 0,  
240) }
```

Background

The CSS property to change the background color of an element to XYZ 31.8766, 14.6161, 83.5792 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(168, 0, 240) }
```

If only the background color should be changed can be used:

```
.background{ background-color: rgb(168, 0,  
240) }
```

This example shows the color as background, it is applied via the CSS property "background".

To optimize and compress your CSS code, you can use our [online CSS compressor and optimizer](#) based on csstidy. If you want to create a linear or radial gradient as background or border, check our [CSS Gradient Generator](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

[Learn more, Memberships starting at \\$2.50/m!](#)

**Follow me
on Twitter!**

@ConvertingColor